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(71) **Applicant (for all designated States except US):** **THE AUSTRALIAN NATIONAL UNIVERSITY [AU/AU];** Acton, ACT 2601 (AU).

(72) **Inventors; and**

(75) **Inventors/Applicants (for US only):** **FEATHERSTONE, Roy [GB/AU];** Unit 92, The Forum, 66 Allara Street, Canberra, ACT 2601 (AU). **TEH, Yee Harn [MY/AU];** Department Information Engineering, RSISE Building 115, The Australian National University, Canberra, ACT 0200 (AU).

(74) **Agents:** **ALLEN, Leon et al.;** Davies Collison Cave, 1 Nicholson Street, Melbourne, VIC 3000 (AU).

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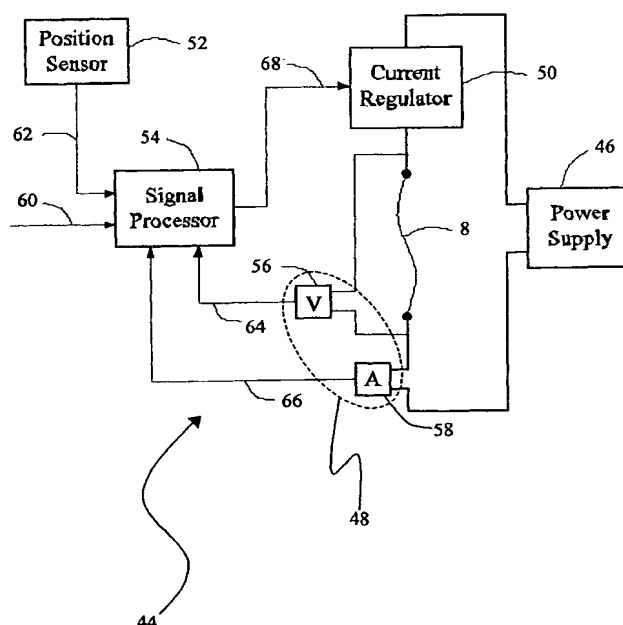
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(54) Title: A SHAPE MEMORY ALLOY ACTUATOR



(57) Abstract: A controller (44) for a SMA actuator (2) includes an electric power source (46) for applying an electric current through an SMA element (8), a sensor (48) to detect change in an electric resistance of the element (8); and a regulator (50) for controlling the magnitude of the applied electric current. The regulator (50) applies a first current above a safe limit current for the element (8) until a selected change in the electric resistance is detected and applies a second current less than the first current after the change is detected.

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